CLAIMS

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1. A method of designing a reagent, which method comprises providing a target, applying the target to ligands which form an array on a solid surface, observing interaction between the ligands and the observing the observation to design a reagent target, and using the observation to design a reagent to interact with the target.

A method of determining combinations of

- 2. A method of determining combinations of ligands specific for a target, which method comprises the steps of:
- the steps of:

 a) binding at least one ligand to the target, to form a target complex,
 - applying the target complex to other ligands which form an array on a solid surface, under conditions which allow interaction between the other
- 20 ligands and the target complex, and

 c) identifying at least one other ligand which interacts with the target complex.
 - 3. A method as claimed in claim 2, comprising the additional step of binding the at least one other ligand to the target complex and then repeating steps
 - b) and c).

 4. A method as claimed in any one of claims 1 to
 3, wherein the target is a nucleic acid and the ligands
 are oligonucleotides or oligonucleotide analogues.
 - are origonal are claimed in claim 2 or claim 3,

 5. A method as claimed in claim 2 or claim 3,
 wherein one ligand is an oligonucleotide or
 oligonucleotide analogue and another ligand is a
 peptide.
 - peptide.

 6. A method as claimed in any one of claims 2 to
 5, wherein two ligands are joined together by means of
 a linker.

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A method as claimed in any one of claims 4 to 6, wherein the ligands are oligonucleotide analogues modified by the addition or substitution of other chemical moieties selected from oligoaliphatic ethers, intercalating agents, positively charged residues, chelating agents and lipophilic agents.

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8. A method as claimed in any one of claims 1 to 7, wherein the ligands form the basis of a ribozyme.

9. A method as claimed in any one of claims 1 to 8, wherein the target and one or more ligands are different chemical types.

10. A method as claimed in any one of claims 1 to 9, wherein at least one ligand becomes covalently bound to the target.

11. A method as chaimed in any one of claims 2 to 10, wherein the at least one ligand to be bound to the target to form a target complex in step a), is chosen by mixing the target with a library of ligands and choosing from the library at least one ligand that binds to the target.

12. A method as claimed in any one of claims 1 to 11, wherein the target is an RNA.

13. A method as claimed in any one of claims 1 to
12, wherein the target is a molecule having a secondary
or tertiary structure, and is caused to interact with
the array of ligands under conditions such that the
secondary or tertiary structure is retained.

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